



## Type WC - Chilled or Hot Water Coils

### **PRIMARY SURFACE**

Round seamless copper tubes are mechanically expanded into the fin collars of the secondary surface. The mechanical expansion provides a permanent metal-to-metal bond for efficient heat transfer. Tubes are staggered in the direction of airflow and only **RETURN BENDS** are used – **NO** reduced tube wall in the bend radius by using hairpin bends.

#### **Tube Size Options:**

5/8" o.d. options ( tube wall thickness / return bend thickness ) ( .020" / .028" ) ( .025" / .035" ) ( .035" / .049" ) and ( .049" / .049" ). Tubes are centered on 1.50" in the tube face and 1.299" between rows.

1/2" o.d. options ( tube wall thickness / return bend thickness ) ( .017" / .025" ) ( .025" / .025" ). Tubes are centered on 1.25" in the tube face and 1.083" between rows.

Rows available are 1,2,3,4,5,6,8,10 and 12.

### **SECONDARY SURFACE**

Corrugated plate type fin that is die-formed. Fin collars are full-drawn to provide accurate control of fin spacing and maximum contact with tubes.

#### **Fin Material Options:**

5/8" tubes come standard with aluminum fin .008" thick with optional (.010).

Optional copper fin thicknesses are (.006) (.008) (.010).

Fins per inch available are 6 through 14.

1/2" tubes come standard with aluminum fin .006" thick with optional copper fin thickness of (.006).

Fins per inch available are 8 through 14.

### **HEADERS**

Seamless copper with die-formed holes that provide a parallel surface to the coil tube for strong brazing joints. Standard 1/8" brass female pipe thread (FPT) vent and drain with optional (1/2) and (3/4). All circuiting is designed to gravity-drain with the coil mounted vertically and tubes running horizontally.

### **CONNECTIONS**

Red Brass Schedule 40 male pipe thread (MPT) std. with optional copper female pipe thread (FPT) available.

### **CASING**

Using 16 ga. minimum thickness material, 1 1/2" flanges are die-formed to permit easy stacking and mounting. Intermediate tube supports are supplied on coils over 44" fin length with an additional support every 42".

#### **Casing Material Options:**

Full G-90 galvanized steel standard with optional 304 & 316 stainless steel.

### **TESTING AND PERFORMANCE**

All coil assemblies are leak tested under water at 315 PSIG nitrogen. Standard construction is suitable for 250 PSIG and up to 300 degrees F.

PERFORMANCE is CERTIFIED under **AHRI Standard 410**. All coil performance ratings are according to Temtrol's ARI certified selection software.